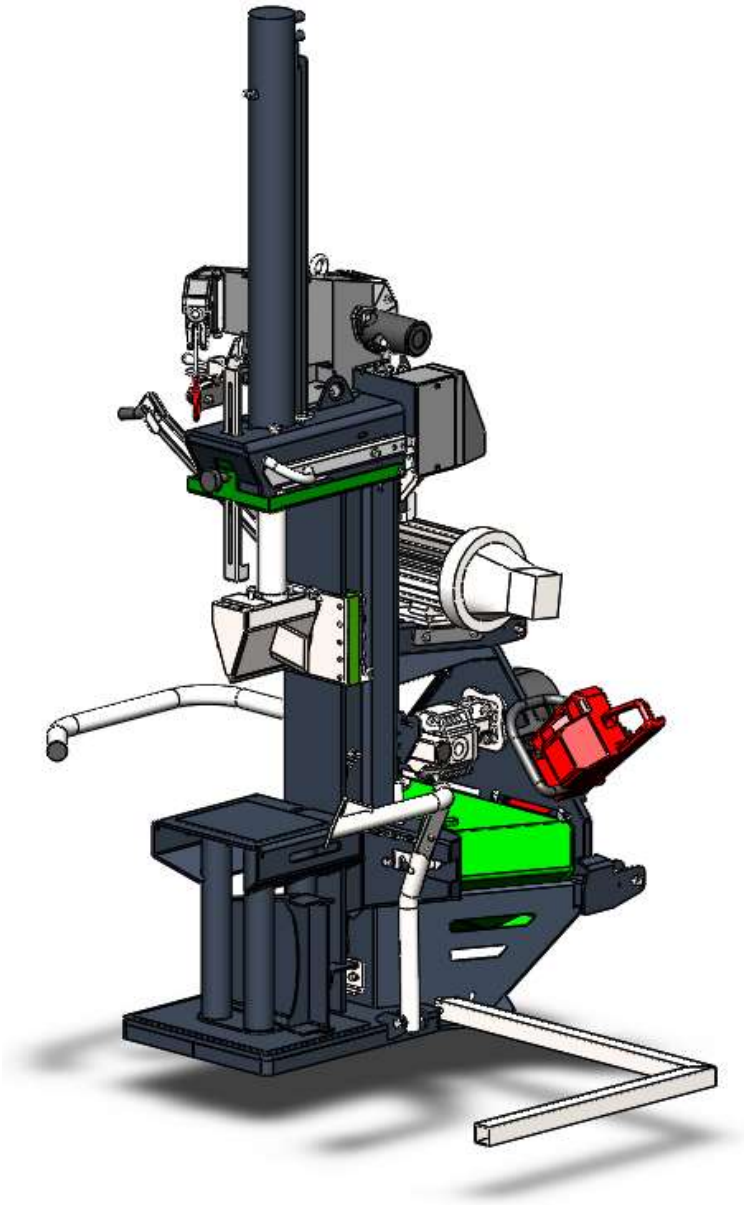
ROBUST

CE

REMOTE CONTROLLED LOG SPLITTER WINCH

ROBUST

16 / 20 / 25



INSTRUCTIONS FOR USE AND MAINTENANCE

INDEX

1. INTRODUCTION 3

2. SPLOŠNA GENERAL SAFETY INSTRUCTIONS 4

2.1. Important instructions before use 4

2.2. Technical data 5

2.3. Description of the hydraulic winch 5

3. UNLOADING FROM THE TRANSPORT VEHICLE 6

4. USING THE HYDRAULIC WINCH WITH A WIRE ROPE 7

4.1. Connecting the electrical socket 7

4.2. Using the remote control 8

4.3. Using the remote controlled winch 9

4.4. Video of the remote controlled winch operation 10

5. REGULAR INSPECTIONS AND MAINTENANCE OF THE LOG SPLITTER WITH WINCH 11

5.1. Inspection of screw connection 11

5.2. Inspection of wire rope and lifting hook 11

5.3. Inspection of hydraulic pipes 11

5.4. Testing the brake 11

5.5. Drum brake 11

5.6. Remote control 12

6. ADDITIONAL EQUIPMENT 13

7. MAINTENANCE AND REPLACEMENT PARTS 13

8. DECLARATION OF CONFORMITY 14

9. WARRANTY 15

Note: We reserve the right to possible printing and other errors. Please accept our apologies in advance. All references to technical data are subject to continuous development and are therefore not binding for delivery. Image are for illustrative purposes only. Due to development and improvements the images do not always reflect the actual state of the products..

1. INTRODUCTION

Dear buyer!

Congratulations on purchasing the ROBUST log splitter with a winch.

We would like to thank you for your trust. At the same time, we are convinced you will be pleased with the product and will be able to use it for a long time.

Upon handover of the winch, you received some basic information on the use and maintenance of the machine by the seller. Those information were only an introduction to different tasks, functions and proper handling of the log splitter and winch that are included in these instructions for use and maintenance.

The purpose of instructions for use and maintenance is to familiarize the user with all necessary activities for working with the winch, the required maintenance procedures and strict safety measures for preventing injuries.

This symbol in the user manual draws attention to safety warnings.
Follow these warnings to prevent injuries.

This symbol in the user manual draws attention to special handling that is recommended when using the log splitter with a winch.

2. GENERAL SAFETY INSTRUCTIONS

Intended use

The winch is intended for lifting logs with the height of 1 m. Logs are lifted with the winch and placed under the axe. The winch can only be used if the tractor is secured against moving.

Never attach a load to the wire rope and pull it by moving the tractor.

Before use, read the instructions carefully and make sure you understand them correctly. Any other use except for the one described above is considered unintended use. The manufacturer is not liable for any damages arising from unintended use of the products. In this case the user alone bears the responsibility.

Use only original equipment and replacement parts, which are recommended by the manufacturer. In case of unauthorized changes of the product, the warranty is terminated and the manufacturer is not liable for any damages, arising from these changes.

2.1. Important instructions before use

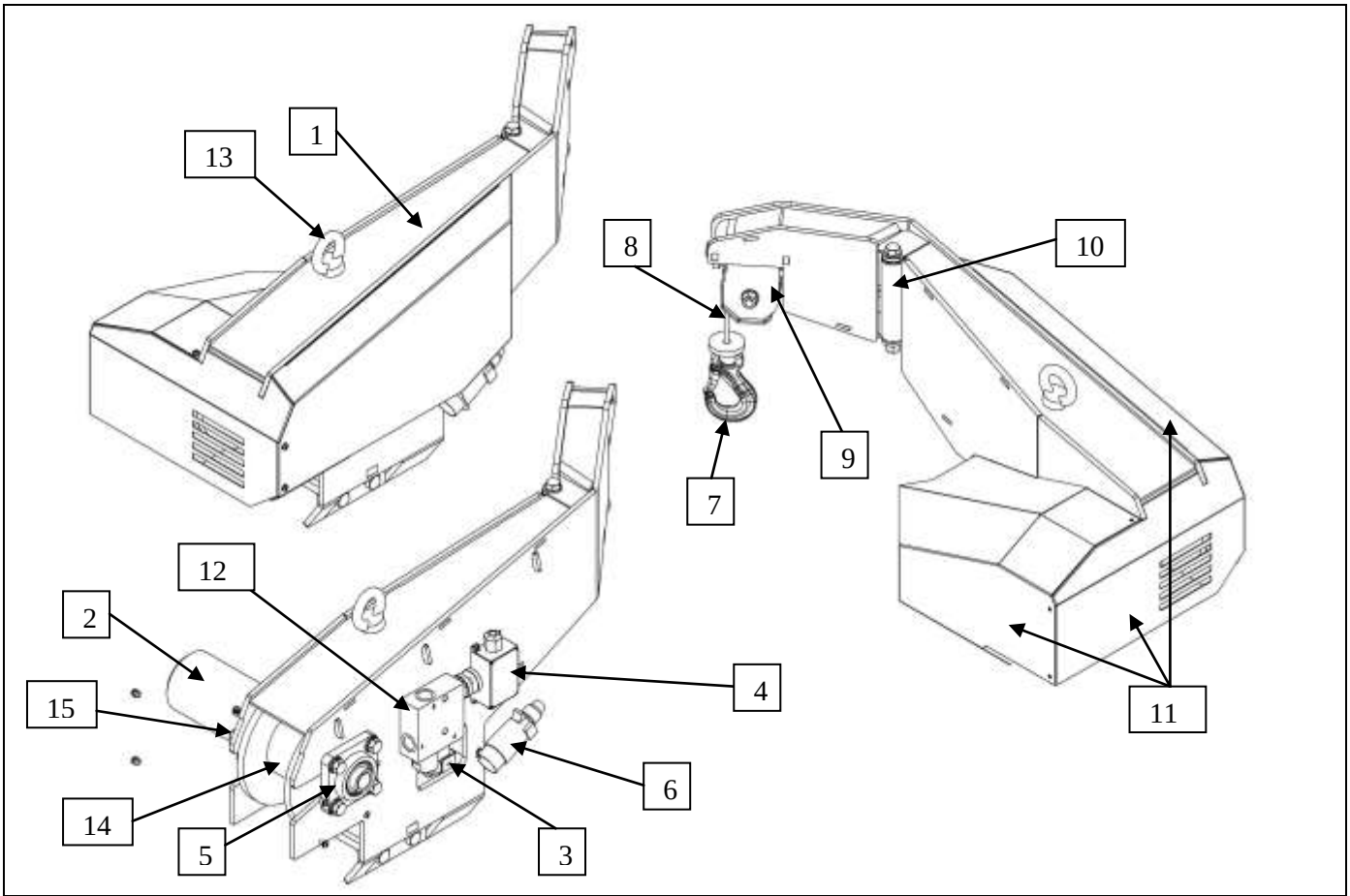
1. The winch may be used and maintained only by persons who are suitably qualified, are aware of the possible hazards and are at least 18 years of age or as provided by the national legislation.
2. Safety and warning signs on the log splitter provide important information for safe use. Observe them for your own safety!
3. Check the operation of the winch before each use, but in any case at least once per working day. If the winch is not functioning flawlessly, the faults must be professionally repaired.
4. When using the winch, it is mandatory to wear personal protective equipment (gloves, suitable tight fitting clothing, protective footwear and facial protective equipment).
5. It is forbidden to stand between the tractor and the log splitter unless the tractor is first secured against moving, the engine of the tractor is turned off and the key is removed.
6. In the area of the hydraulic lift of the tractor, there is a risk of injuries due to crushing or compression when coupling or decoupling the equipment. ???
7. Do not lift the log splitter with the tractor hydraulics before the PTO shaft is adapted.
8. The winch can only be used if all protective devices are installed and the tractor is secured against moving!
9. Hydraulic elements are under high pressure.
10. The log splitter and winch must be operated by just one person. Other persons must not stand in the splitting area while the log splitter is being used.
11. It is forbidden to prevent two-handed operation of the thrust roller with the axe.
12. It is forbidden to climb and ride on the log splitter.
13. When using public transport routes, observe all traffic signs and regulations.
14. Before driving off and driving on public transport routes be careful and pay attention to the nearby surroundings (children). Ensure adequate visibility.
15. Before transport, move the log splitter to the required position.
16. Always adapt the driving speed to the current conditions. Avoid rapid turning when driving up, down or laterally across a slope.
17. The user is not allowed to change the factory settings.
18. Regularly check the tightness of bolts and the oil level.

2.2. Technical data

Suitable for log splitters:	ROBUST 16 / 20 / 25
Drive	Hydraulic engine connected directly to the drum
Traction force [kg]	500
Weight of the winch [kg]	62
Dimensions HxWXL [mm]	472 x 520 x 810
Length of wire rope [m]	15
Diameter of wire rope [mm]	6
Wire rope unreeling speed [m/min]	35

Noise level does not exceed 70 dB.

2.3. Description of the hydraulic winch



1	Frame	9	Pulley
2	Hydraulic engine	10	Thrust roller
3	Hydraulic valve	11	Drum and receiver covers
4	Remote signal receiver	12	Hydraulic manifold
5	Drum bearing	13	Lifting eye
6	Electric plug	14	Drum for reeling the wire rope
7	Lifting hook	15	Ball and spring screw
8	Wire rope		

3. UNLOADING FROM THE TRANSPORT VEHICLE

- **High risk of tipping over.**

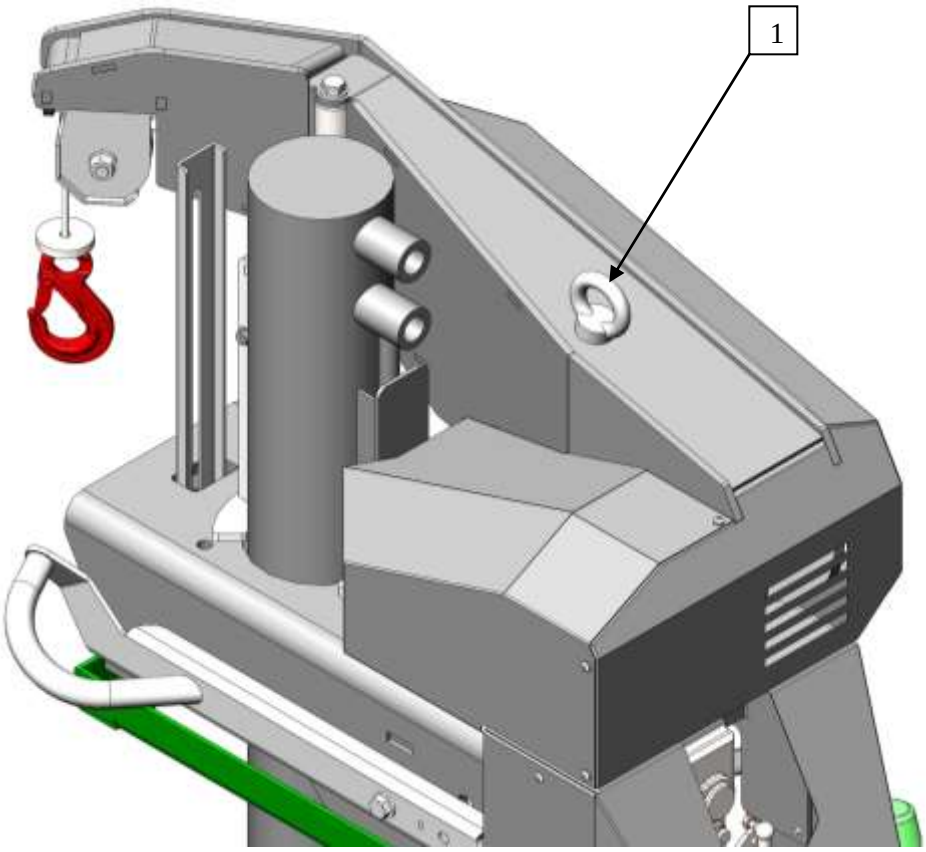


Figure 1

Place the log splitter from the transport vehicle on a flat and firm surface. To unload the machine use a movable hydraulic ramp or a lift that can be attached to the lifting eye on the winch (1). Remove the packaging from the log splitter.

4. USING THE HYDRAULIC WINCH WITH A WIRE ROPE

The hydraulic winch operates by reeling the wire rope with a hook to the drum.

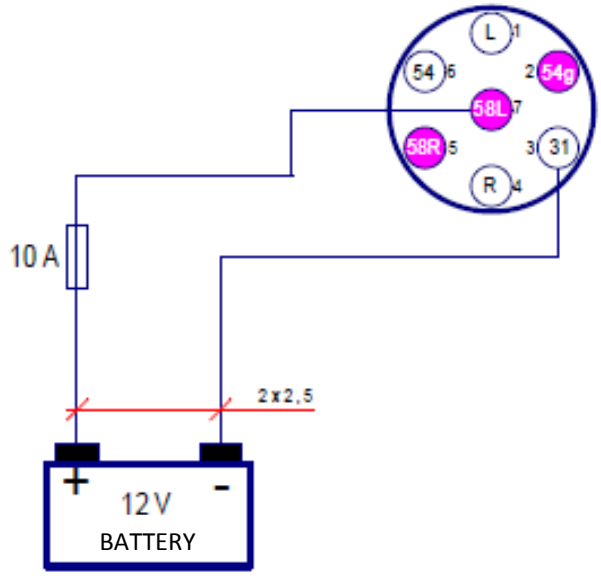
4.1. Connecting the electrical socket

To ensure correct operation, the electrical socket on the tractor must be connected as shown in figure 2 or in accordance with the ISO 1724:2003 standard that regulates traffic signalization of attachments.

CONNECTION OF 7-PIN DIN SOCKET
TO MAIN ELECTRICAL CIRCUIT

CONNECTION OF EM VALVES TO A
7-PIN DIN SOCKET

Existing socket on the tractor
SOCKET (1)



SOCKET (1)		
No.	Sym.	CONNECTION
1	L	/
2	54 g	/
3	31	MASS
4	R	/
5	58R	/
6	54	/
7	58L	+12 V

Figure 2

4.2. Using the remote control

The left button (3) is used to activate the reeling of the wire rope, while the right button (6) is used to activate the unreeling function. The safety button (4) switches off the functions of the remote control. To re-activate the remote control, press and hold button 4 for at least three seconds, until the signal indicator turns on (5). Once the remote control is active, the signal indicator (5) turns on when you press the left or right buttons. If you press and hold the right button for unreeling the wire rope (6) for more than 5 seconds, the function remains activated even if you release the button. Unreeling of the wire rope is stopped by pressing either the right or the left button. This function is very useful when you are unreeling the wire rope. After you press the button, you can put the remote in your pocket and continue pulling the wire rope with your hands.

Figure 3

4.3. Using the remote controlled winch

By pressing the right button (6) on the remote control, the function of unreeling the wire rope from the drum is activated. Pull the hook (2) of the wire rope with your left hand and at the same time press and hold the right button (6) on the remote control. As long as you are pulling the hook (2) and holding the button (6), the wire rope will continue to unreel. If you release any button, the unreeling is stopped.

> **If you are not pulling the hook, the wire rope must not be unreeling even if the right button (6) is pressed and the hydraulic engine is rotating.**

If you press and hold the right button (6) for unreeling the wire rope for more than five second, the unreeling function remains activated and you don't need to hold the button. When you pull the wire rope from the winch, it starts unreeling. When you stop pulling the wire rope, the unreeling stops. To stop the automatic unreeling push buttons 6 or 3.

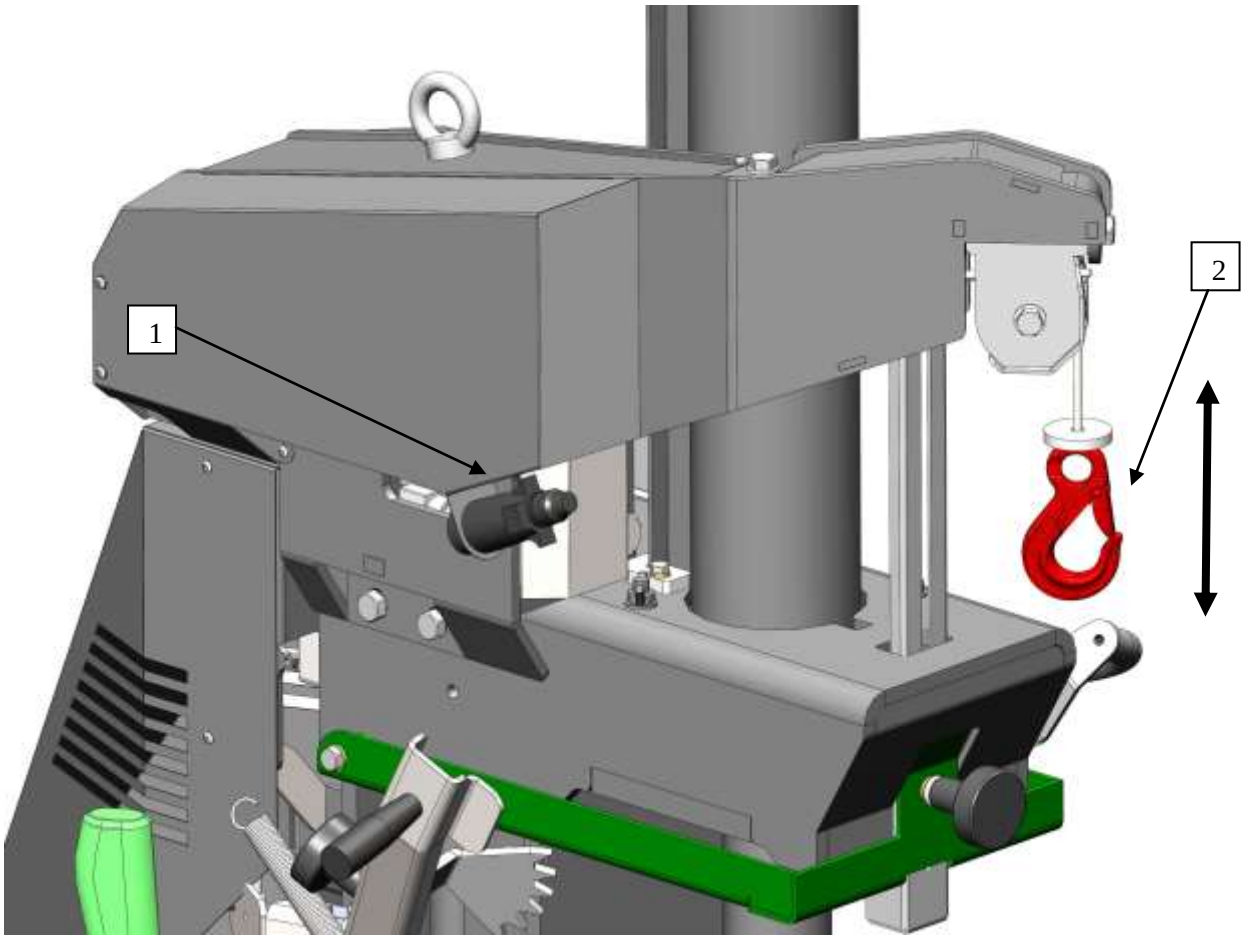


Figure 4

Pull the wire rope close to the log, wrap it around the log and secure it with the wire rope hook (Figure 4). Lifting clamps can also be used for pulling and lifting (additional equipment – figure 5, figure 9).

Figure 5

When you press the left button (3) for reeling, the wire rope starts reeling back on the drum and thus towing and lifting the log. When the button (3) is released, the wire rope stops and holds the load (does not unreel under the weight of the load).

ATTENTION! Do not stand in the working area of the winch, between the log splitter and the hauled load.

4.4. Video of the remote controlled winch operation

We recommend all users to view this video that demonstrates how the remote controlled winch is used:

http://www.youtube.com/watch?v=baJGmzeBrVo

Link to all video demonstrations:

http://www.youtube.com/user/ROBUSTbySICO

5. REGULAR INSPECTIONS AND MAINTENANCE OF THE LOG SPLITTER WITH WINCH

- **Prior to each inspection, maintenance, cleaning or repair of the log splitter with winch, turn off the tractor engine and remove the key. Secure the tractor against moving.**

5.1. Inspection of screw connection

Check the screw connections after the first 10 working hours. Re-tighten the screws if necessary. After this first inspection, check the screw connections every 50 working hours.

Check the seal of the winch safety valve the hydraulic manifold. Changes may only be carried out by qualified personnel.

5.2. Inspection of wire rope and lifting hook

Before each use, check the condition of the wire rope. Over the entire length of the wire rope, there must be no torn threads. Check the bond between the wire rope and the hook.

5.3. Inspection of hydraulic pipes

- Regularly check the condition of the hydraulic pipes
- Replace damaged pipes immediately
- Replace the pipes after their service life has expired (6 years under normal conditions)

5.4. Testing the brake

The wire rope MUST NOT unreel if you are NOT MANUALLY PULLING the wire rope with the hook, even if you press and hold the unreeling button on the remote control.
As you are pulling the wire rope and it is unreeling from the drum, the wire rope must stop as soon as you stop pulling, even though you are still holding the unreeling button on the remote control. If the unreeling does not stop, immediately check the drum brake, which prevents uncontrollable unreeling of the wire rope.

5.5. Drum brake

Remove the drum cover (1).

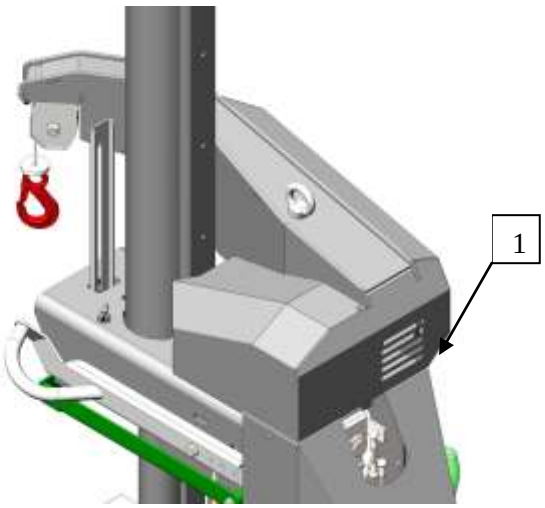
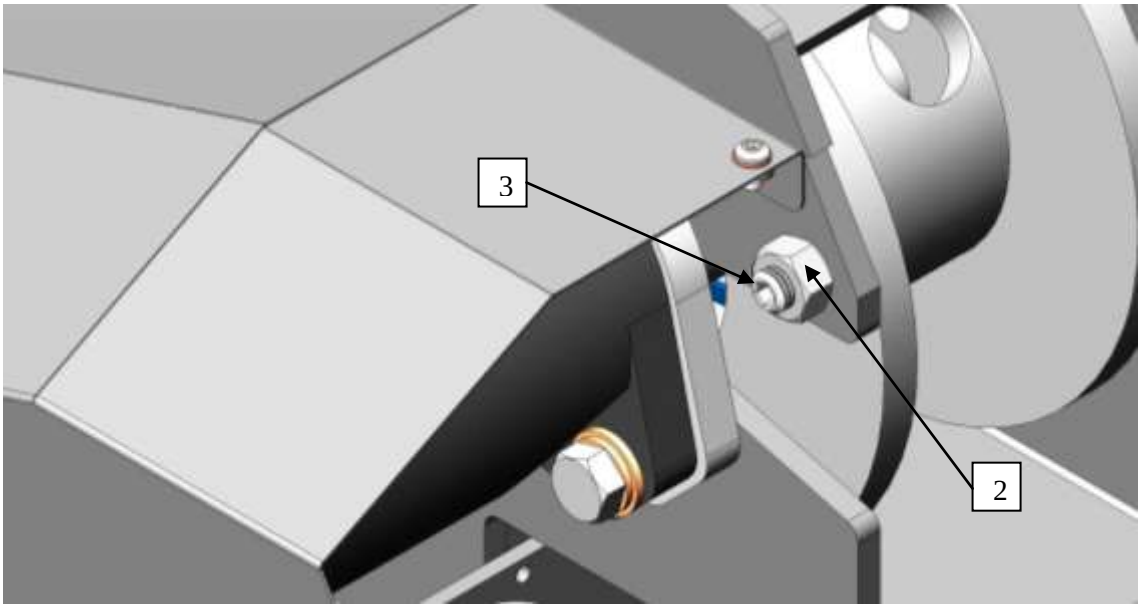


Figure 6

Unscrew the safety nut (2) and tighten the ball and spring screw (3) for ¼ of a turn. Check the unreeling of the wire rope. If the wire rope is unreeling even though you are not pulling the hook, tighten screw (3) as necessary. After the settings are carried out, keep the screw (3) still and tighten the safety nut.
Only the ball (4) must be touching the drum and not the entire screw (3). If that is the case, the ball and spring screw (3) must be replaced.



Slika 7

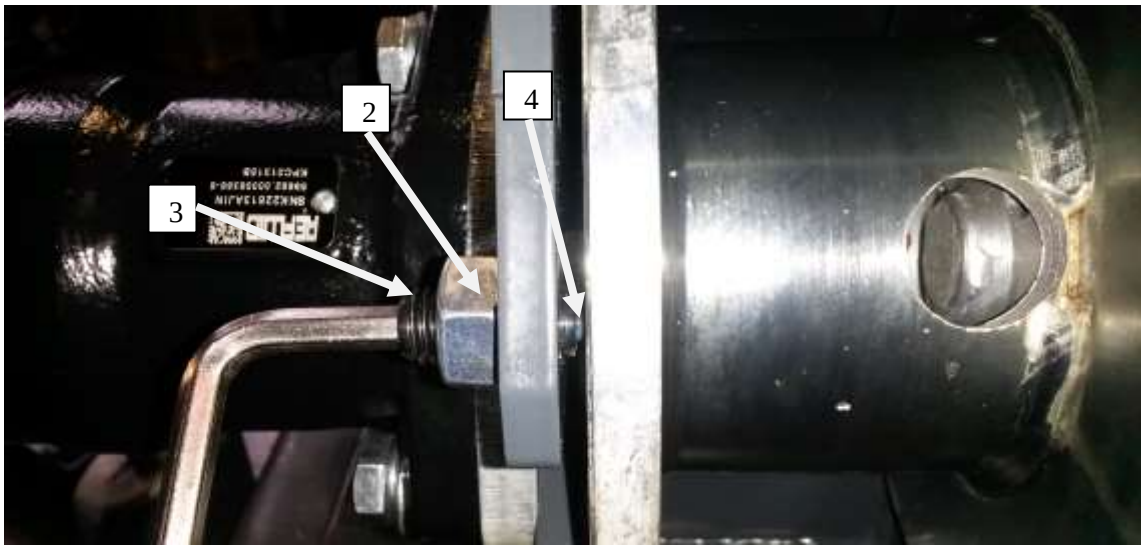


Figure 8

5.6. Remote control

In case of malfunction or failure of the remote control, immediately stop using the machine and contact the manufacturer or the service center.

If the indicator light does not turn on when pressing the buttons for reeling or unreeling the wire rope, the remote control is switched off (see chapter 4.2), the batteries are depleted or it is not functioning for other reasons.

For more information, see the attached instructions of the remote control manufacturer.

6. ADDITIONAL EQUIPMENT

- Gripping pliers for rope winch

Figure 9

7. MAINTENANCE AND REPLACEMENT PARTS

We are offering repairs, maintenance, and the necessary replacement parts and additional equipment for the product for a period of at least five (5) years after the end of serial production of the product.

8. DECLARATION OF CONFORMITY

EC DECLARATION OF CONFORMITY

IN ACCORDANCE WITH:

ES EC GUIDELNES 2006/42/EC AND MACHINERY SAFETY RULE
(Official Gazette of RS, No. 75/08, 66/10 and 74/11)
EC GUIDELINES 2006/95/EEC AND REGULATIONS RELATING TO ELECTRICAL EQUIPMENT
WHICH IS DESIGNED FOR USE WITHIN CERTAIN VOLTAGE LIMITS
(Official Gazette of RS, No. 27/04))

MANUFACTURER:

ROBUST D.O.O.

ARJA VAS 104, 3301 PETROVČE, SLOVENIA

PERSON RESPONSIBLE FOR COMPILING THE TECHNICAL DOCUMENTATION:

MARJAN VOLPE, ING., MANAGER OF ROBUST D.O.O.,
ARJA VAS 104, SI-3301 PETROVČE

DESCRIPTION OF DEVICE – MACHINE:

LOG SPLITTER
ROBUST 16 / 20 / 25 WITH A HYDRAULIC DRIVEN REMOTE CONTROLLED WINCH

UNDER OUR SOLE RESPONSIBILITY WE DECLARE THAT THE MENTIONED MACHINE:

LOG SPLITTER
ROBUST 16 / 20 / 25 WITH A HYDRAULIC DRIVEN REMOTE CONTROLLED WINCH

COMPLIES WITH THE REGULATIONS AND STANDARDS:

EC GUIDELNES 2006/42/EC AND MACHINERY SAFETY RULE
(Official Gazette of RS, No. 75/08, 66/10 and 74/11)
EC GUIDELINES 2006/95/EEC AND REGULATIONS RELATING TO ELECTRICAL EQUIPMENT
WHICH IS DESIGNED FOR USE WITHIN CERTAIN VOLTAGE LIMITS
(Official Gazette of RS, No. 27/04)

HARMONIZED AND OTHER STANDARDS:

SIST EN ISO 12100:2011 SIST EN609-1:1999/ A2:2010
SIST EN ISO 4254-1:2009 SIST EN ISO13857:2008 SIST EN ISO 4413:2011
SIST EN 60204-1:2006/ A2:2009

DATE: SIGNATURE OF RESPONSIBLE PERSON:

PETROVČE, 15th May 2014 MARJAN VOLPE, ING.

9. WARRANTY

Warranty is valid for 24 months from the date of purchase. In the event of failure of the log splitter or winch within the warranty period, the manufacturer ROBUST d.o.o. is obliged to eliminate the failure in a legally defined period. Repairs will be carried out by qualified professionals and only original replacement parts will be used.

The warranty does not cover damages or defects on the log splitter that were caused by the user.

The costs of labor and materials, which occur during the warranty period, shall be settled by the company ROBUST d.o.o..

WARRANTY DOES NOT INCLUDE THE FOLLOWING:

- All kinds of structural modifications or upgrades that were not authorized by the manufacturers.
- Manipulation or non-compliance with the conditions required by the instructions for use and maintenance.
- Improper use of the log splitter and winch due to non-compliance with the instruction manual.
- Failure to observe the basic instructions for safe operation of the log splitter and winch.
- Poor or irregular maintenance of the log splitter and winch and irregular inspections of key vital parts.
- **If the log splitter and winch are used by a person that is not familiar with the instructions and safe use, a minor, or a person with insufficient psychophysical abilities.**

WARRANTY CERTIFICATE

WARRANTY PERIOD: **24 months**

The manufacturer guarantees for technical characteristics and flawless operation of the product within the warranty period, which starts with the handover of the product to the buyer. The warranty is valid in the area of European Union. The warranty period is 24 months. The manufacturer offers maintenance and replacement parts for five years after the expiry of the warranty period.
The warranty does not exclude consumer rights arising from seller's responsibility for defects in the goods.
Company name, registered office and service of the manufacturer and provider of the warranty:
ROBUST d.o.o., Arja vas 104, 3301 Petrovče, Slovenia
Tel.: +386 (0)3 703 8823, Fax: +386 (0)3 703 8807, E-mail: info@robust.si

PRODUCT: **VERTICAL HYDRAULIC LOG SPLITTER WITH A REMOTE CONTROLLED WINCH**

TYPE:_____ SERIAL NUMBER:_____

Seller: _____

Stamp of seller: Signature: Date of handover:

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